

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: September 5, 2002, 13:01:12 : Search time 94.24 Seconds
(without alignments)
2687.268 Million cell updates/sec

Title: US-09-665-728-2
Perfect score: 1031
Sequence: 1 tctagcgacccttcggcc.....agcccgctcgagcgccgc 1031

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued_Patents_NA:*
1: /cgn2_6/pcodata/2/1na/5A_COMB.seq:*
2: /cgn2_6/pcodata/2/1na/5B_COMB.seq:*
3: /cgn2_6/pcodata/2/1na/5A_COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	50.4	4.9	2338	1	US-08-425-069-1
2	50.4	4.9	2338	2	US-08-317-844B-1
3	41.2	4.0	1185	3	US-09-023-339-3
4	41.2	4.0	1260	3	US-09-023-173-5
5	41.2	4.0	1308	3	US-09-023-173-10
6	41.2	4.0	1308	3	US-09-023-339-6
7	40.2	3.9	2214	3	US-08-864-038A-1
8	40.2	3.9	3331	3	US-08-864-038A-2
9	40.2	3.9	3331	3	US-08-864-038A-4
10	39.6	3.8	2502	1	US-08-073-384C-7
11	39.6	3.8	2502	1	US-08-254-359A-7
12	39.6	3.8	2502	1	US-08-483-043-7
13	39.6	3.8	2502	1	US-08-481-238-7
14	39.6	3.8	2502	2	US-08-471-066B-7
15	39.6	3.8	2502	2	US-08-484-956-7
16	39.6	3.8	2502	2	US-08-757-653-7
17	39.6	3.8	2502	2	US-08-599-491-7
18	39.6	3.8	2502	2	US-08-756-386-7
19	39.6	3.8	2502	2	US-08-823-516-7
20	39.6	3.8	2502	3	US-08-682-853A-7
21	39.6	3.8	2502	3	US-08-759-038-7
22	39.6	3.8	2502	3	US-08-758-314-7
23	39.6	3.8	2502	4	US-09-350-309-7
24	38.8	3.7	1929	4	US-09-380-420C-1
25	38.6	3.7	1598	1	US-08-211-682-24
26	38.4	3.7	2461	1	US-08-282-141-1
27	38.2	3.7	1995	1	US-08-425-069-3

28	38.2	3.7	1995	2	US-08-317-844B-3	Sequence 3, Appl1
29	37.6	3.6	71989	4	US-09-443-501A-2	Sequence 2, Appl1
30	37.4	3.6	6085	4	US-09-029-603-4	Sequence 4, Appl1
31	37.2	3.6	2260	2	US-08-788-750-1	Sequence 1, Appl1
32	37	3.6	2000	4	US-09-329-350-34	Sequence 34, Appl1
33	37	3.6	23673	4	US-09-773-816-1	Sequence 1, Appl1
34	36.8	3.6	50937	4	US-09-428-517-1	Sequence 1, Appl1
35	36.6	3.5	718	4	US-08-918-288-10	Sequence 10, Appl1
36	36.6	3.5	718	4	US-09-282-357-10	Sequence 10, Appl1
37	36.6	3.5	744	4	US-08-918-288-8	Sequence 8, Appl1
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39	36.4	3.5	23673	4	US-09-773-816-1	Sequence 1, Appl1
40	36.2	3.5	2413	4	US-09-613-182-10	Sequence 10, Appl1
41	36.2	3.5	80161	3	US-09-036-987A-1	Sequence 1, Appl1
42	36.2	3.5	80161	4	US-09-370-700-1	Sequence 1, Appl1
43	36	3.5	432	1	US-08-642-255-48	Sequence 48, Appl1
44	36	3.5	756	1	US-08-642-255-50	Sequence 50, Appl1
45	36	3.5	2040	3	US-08-604-789B-1	Sequence 1, Appl1

ALIGNMENTS

RESULT 1
US-08-425-069-1
Sequence 1, 5728810
Patent No. 5728810
GENERAL INFORMATION:
APPLICANT: Lewis, Randolph V.
APPLICANT: Xu, Ming
APPLICANT: Himman, Michael B.
TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL
NUMBER OF INVENTIONS: 69
CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
CORRESPONDENCE ADDRESS:
ADDRESSEE: Birch, Stewart, Kolasch & Birch
STREET: 301 No. 5728810th Washington Street
City: Falls Church
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22046
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/425,069
FILING DATE: 19-APR-1995
CLASSIFICATION: A35
ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1447-106P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
TELEFAX: (703) 205-8050
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2338 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Nephila clavipes
FEATURE:
NAME/KEY: CDS
LOCATION: 1..2154
OTHER INFORMATION: /product= "Nephila clavipes"

OTHER INFORMATION: dragline silk protein"
 PUBLICATION INFORMATION:
 AUTHORS: Xu, Ming
 AUTHORS: Lewis, Randolph V.
 TITLE: Structure of a protein superfiber: Spider
 TITLE: dragline silk
 JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
 VOLUME: 87
 PAGES: 7120-7124
 DATE: Sept.-1990
 RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2338
 US-08-425-069-1

Query Match 4.9%; Score 50.4; DB 1; Length 2338;
 Best Local Similarity 49.3%; Pred. No. 0.0054;
 Matches 132; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

QY 514 tctcgatgccgctgcaagactaccacaagaatgagctcctgcagctcgcagc 573
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 DB 459 TCTTGAAGCCAGAGTGCAGAGAGAGTGGATTAGTGGACAGAGTGCAGCAGC 518
 QY 574 tgaagcagctgcagcagtgctcctgcctgctgagcagcagcagcagcagc 633
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 DB 519 AGCAGAGCGCGAGGCTGAGACAGCGGATACGCTGCTGTGAGACAGAGTGCAGC 578
 QY 634 gctaccctgcttggagagatcgcctcaccagctcctgcagcagctcagcagc 693
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 DB 579 ACAAGAGGCTATGAGAGACTTGAGCCAGAGTGTGACAGAGATTAGGTGAGCA 638
 QY 694 agcagcagctgctcagcagtgcttaagtgagtgagtcgcacacagcagcagcagc 753
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 DB 639 AGGTGAGGTGCGAGCAGCAGCAGCAGCAGTGTGAGCGGACAGAGGAGACTAGGTG 698
 QY 754 atctgctgcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 781
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 DB 699 ACAAGTGTGAGCAGAGAGCTGAGCA 726

RESULT 2

US-08-317-844B-1
 Sequence 1, Application US/08317844B
 Patent No. 5989894
 GENERAL INFORMATION:
 APPLICANT: Lewis, Randolph V.
 APPLICANT: Xu, Ming
 APPLICANT: Hinman, Michael B.
 TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
 TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL
 TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
 NUMBER OF SEQUENCES: 62
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Birch, Stewart, Kolasch & Birch
 STREET: 301 No. 5989894th Washington Street
 CITY: Falls Church
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22046
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/317,844B
 FILING DATE: 04-OCT-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Murphy Jr., Gerald M
 REGISTRATION NUMBER: 28,977
 REFERENCE NUMBER: 1447-105P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 241-1300

TELEFAX: (703) 241-2848
 TELEX: 248345
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2338 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 ORGANISM: Nephila clavipes
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..2154
 OTHER INFORMATION: /product= "Nephila clavipes
 OTHER INFORMATION: dragline silk protein"
 PUBLICATION INFORMATION:
 AUTHORS: Xu, Ming
 AUTHORS: Lewis, Randolph V.
 TITLE: Structure of a protein superfiber: Spider
 TITLE: dragline silk
 JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
 VOLUME: 87
 PAGES: 7120-7124
 DATE: Sept.-1990
 RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2338
 US-08-317-844B-1

Query Match 4.9%; Score 50.4; DB 2; Length 2338;
 Best Local Similarity 49.3%; Pred. No. 0.0054;
 Matches 132; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

QY 514 tctcgatgccgctgcaagactaccacaagaatgagctcctgcagcagctcgcagc 573
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 DB 459 TCTTGAAGCCAGAGTGCAGAGAGAGTGGATTAGTGGACAGAGTGCAGCAGC 518
 QY 574 tgaagcagctgcagcagtgctcctgcctgctgagcagcagcagcagcagcagc 633
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 DB 519 AGCAGAGCGCGAGGCTGAGACAGCGGATACGCTGCTGTGAGACAGAGTGCAGC 578
 QY 634 gctaccctgcttggagagatcgcctcaccagctcctgcagcagctcagcagcagc 693
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 DB 579 ACAAGAGGCTATGAGAGACTTGAGCCAGAGTGTGACAGAGATTAGGTGAGCA 638
 QY 694 agcagcagctgctcagcagtgcttaagtgagtgagtcgcacacagcagcagcagc 753
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 DB 639 AGGTGAGGTGCGAGCAGCAGCAGCAGCAGTGTGAGCGGACAGAGGAGACTAGGTG 698
 QY 754 atctgctgcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 781
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 DB 699 ACAAGTGTGAGCAGAGAGCTGAGCA 726

RESULT 3

US-09-023-339-3
 Sequence 3, Application US/09023339
 Patent No. 6127145
 GENERAL INFORMATION:
 APPLICANT: Suttiff, Thomas D.
 APPLICANT: Rodriguez, Raymond L.
 TITLE OF INVENTION: Production of '1-Antitrypsin
 TITLE OF INVENTION: in Plants
 NUMBER OF SEQUENCES: 22
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: P.O. Box 60850
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:


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SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,173
FILING DATE: 13-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/038,168
FILING DATE: 13-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Petithory, Joanne R
REGISTRATION NUMBER: P42995
REFERENCE/DOCKET NUMBER: 0665-0007.30
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-0960
TELEFAX: 650-324-0960
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1308 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-023-173-10
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Query Match 4.0%; Score 41.2; DB 3; Length 1308;
Best Local Similarity 47.6%; Pred. No. 0.63;
Matches 121; Conservative 0; Mismatches 133; Indels 0; Gaps 0;
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QY 464 catcaagcgcgcgtgaggtgtccaaaccccgctccttaatacagttcttcgagatgc 523
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DB 800 CATCAGCACTGCAAGAAGCTCTCCAGTGGTCTCTCATGAAGTACCTGGGGAACGC 859
QY 524 ccgtgccaagagactaccacaagaagaaatgagctcctgagctcctgagctgaagcagtc 583
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 860 CACCGCATCTCTTCTCTGCGGAGAGGCAAGCTCAGACCTGGAGAAGACGCTGAC 919
QY 584 gcaagtgctctgctgctgagctggagactgcggtgacgcgaacccactggtactctgac 643
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 920 GCACGACATCATCAGCAAGTCTCTGGAAGACGAGACAGGCGCTCCGCTAGCTCCACCT 979
QY 644 tttagagagatcgccctcccaagttctggtgcaagtgttccagctgtgacaagcagaagtc 703
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 980 CCCGAACTAGCATCAGCCGACGCTAGACGACCTGAAGAGCGCTGCGCCAGCTGGGCACT 1039
QY 704 gtccgagggtgttaa 717
    ||||| |||||
DB 1040 CACGAAGCTCTCA 1053
```

```
RESULT 6
US-09-023-339-6
Sequence 6, Application US/09023339
Patent No. 6127145
GENERAL INFORMATION:
APPLICANT: Sutliff, Thomas D.
TITLE OF INVENTION: Rodriguez, Raymond L.
TITLE OF INVENTION: Production of '1-antitrypsin
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: P.O. Box 60850
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,339
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FILING DATE: 13-FEB-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/037,991
FILING DATE: 13-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Petithory, Joanne R
REGISTRATION NUMBER: P42,995
REFERENCE/DOCKET NUMBER: 0665-0003.30
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-0880
TELEFAX: 650-324-0960
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1308 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: codon-optimized No. 61271451/XhoI fragment encoding Rany3D
US-09-023-339-6
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Query Match 4.0%; Score 41.2; DB 3; Length 1308;
Best Local Similarity 47.6%; Pred. No. 0.63;
Matches 121; Conservative 0; Mismatches 133; Indels 0; Gaps 0;
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QY 464 catcaagcgcgcgtgaggtgtccaaaccccgctccttaatacagttcttcgagatgc 523
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DB 800 CATCAGCACTGCAAGAAGCTCTCCAGTGGTCTCTCATGAAGTACCTGGGGAACGC 859
QY 524 ccgtgccaagagactaccacaagaagaaatgagctcctgagctcctgagctgaagcagtc 583
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 860 CACCGCATCTCTTCTCTGCGGAGAGGCAAGCTCAGACCTGGAGAAGACGCTGAC 919
QY 584 gcaagtgctctgctgctgagctggagactgcggtgacgcgaacccactggtactctgac 643
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 920 GCACGACATCATCAGCAAGTCTCTGGAAGACGAGACAGGCGCTCCGCTAGCTCCACCT 979
QY 644 tttagagagatcgccctcccaagttctggtgcaagtgttccagctgtgacaagcagaagtc 703
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 980 CCCGAACTAGCATCAGCCGACGCTAGACGACCTGAAGAGCGCTGCGCCAGCTGGGCACT 1039
QY 704 gtccgagggtgttaa 717
    ||||| |||||
DB 1040 CACGAAGCTCTCA 1053
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```
RESULT 7
US-08-864-038A-1
Sequence 1, Application US/08864038A
Patent No. 6001592
GENERAL INFORMATION:
APPLICANT: Kunio NAKASHIMA et al.
TITLE OF INVENTION: NOVEL POLYPEPTIDE GENE CDNA, VECTOR
TITLE OF INVENTION: CONTAINING SAID CDNA, HOST CELLS TRANSFORMED WITH SAID
TITLE OF INVENTION: VECTOR, POLYPEPTIDE PRODUCED THEREBY, METHOD OF PRODUCING
TITLE OF INVENTION: SAID POLYPEPTIDE, DNA ENCODING SAID POLYPEPTIDE AND ANTIBOD
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: 812-5 Hiranano
STREET: Isshinden
CITY: Tsu-city
STATE: Mie-prefecture
COUNTRY: JAPAN
ZIP: 514-01
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: Microsoft Windows 95
SOFTWARE: Word Perfect 6.1
CURRENT APPLICATION DATA:
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1 APPLICATION NUMBER: US/08/864,038A
2 FILING DATE: May 28, 1997
3 PRIOR APPLICATION DATA:
4 APPLICATION NUMBER: JP 8-184459
5 FILING DATE: 15-Jul-1996
6 ATTORNEY/AGENT INFORMATION:
7 NAME: C. Bruce Hamburg
8 REGISTRATION NUMBER: 22,389
9 REFERENCE/DOCKET NUMBER: F-5610
10 TELECOMMUNICATION INFORMATION:
11 TELEPHONE: (412)986-2340
12 TELEFAX: (412)953-7733
13 INFORMATION FOR SEQ ID NO: 1:
14 SEQUENCE CHARACTERISTICS:
15 LENGTH: 2214
16 TYPE: nucleic acid
17 STRANDEDNESS: double
18 TOPOLOGY: linear
19 ORIGINAL SOURCE:
20 ORGANISM: Pinctada fucata
21 CELL TYPE: mantle epithelial cell
22 US-08-864-038A-1

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Query Match	3.9%	Score 40.2	DB 3	Length 224
Best Local	Similarity 51.4%	Pred. No. 1.2		
Matches 93	Conservative 0	Mismatches 88	Indels 0	Gaps 0

Oy	553	agctccctccagctccctcgtgaagtcgaagtcgagtcggtcttcgtctgactcggggaact	61.2
Db	717	agccgcacacccctgctgcctcgtcagagagggccgacgcttgacattggagactcggctggcg	77.6
Oy	613	gcggtgaccgcaccacccctgctacctggtcttttgagagatcgcctccaccagttctg	67.2
Db	777	acttgagagactcgtgctggcggaccttgagagggctcttgagagcttggcttcggagata	83.6
Oy	673	gccaaagtgtccagctgtgacaagcagcagtgctcgagagtgcttaagttggtgagtcg	73.2
Db	837	tggagagactctgctgcctgcctgctgctgctgacgcgcgctgcctccggaggtgagact	89.6
Oy	733	c	73.3
Db	897	c	89.7

RESULT 8
US-08-864-038A-2
; Sequence 2, Application US/08864038A

; GENERAL INFORMATION:

1 APPLICANT: KUNIO NAKASHIMA et al.
2
3 TITLE OF INVENTION: NOVEL POLYPEPTIDE GENE CDNA, VECTOR
4
5 TITLE OF INVENTION: CONTAINING SAID CDNA, HOST CELLS TRANSFORMED WITH SAID
6
7 TITLE OF INVENTION: VECTOR, POLYPEPTIDE PRODUCED THEREBY, METHOD OF PRODUCING
8
9 TITLE OF INVENTION: SAID POLYPEPTIDE, DNA ENCODING SAID POLYPEPTIDE AND ANTIBODY
10
11 TITLE OF INVENTION: TO SAID POLYPEPTIDE
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NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:

```

; ADDRESS: 812-5 Hirano
; STREET: Isshinden
;

```

```

; CITY: Tsu-city
; STATE: Mie-prefecture

```

COUNTRY: JAPAN
ZIP: 514-01

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
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;
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Microsoft Windows 95
;

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; SOFTWARE: word perfect 6.1
; CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/08
FILING DATE: May 28, 1997

; PRIOR APPLICATION DATA:

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1  APPLICATION NUMBER: JP 8-184459
2  FILING DATE: 15-July-1996
3  ATTORNEY/AGENT INFORMATION:
4
5  NAME: C. Bruce Hambrick
6  REGISTRATION NUMBER: 22,389
7  REFERENCE/DOCKET NUMBER: F-5610
8  TELECOMMUNICATION INFORMATION:
9
10 TELEPHONE: (212)986-2340
11 TELEFAX: (212)953-7733
12 INFORMATION FOR SEQ ID NO: 2:
13
14 SEQUENCE CHARACTERISTICS:
15
16     LENGTH: 3331
17     TYPE: nucleic acid
18     STRANDEDNESS: double
19     TOPOLOGY: linear
20
21     MOLECULE TYPE: cDNA to mRNA
22     ORIGINAL SOURCE:
23
24     ORGANISM: Pinctada fucata
25     CELL TYPE: mantle epithelial cell
26
27     FEATURE: mRNA
28
29     LOCATION: from 1 to 3331
30
31     IDENTIFICATION METHOD: E (by experiment)
32
33 OS-08-864-388A-2

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Query Match	3.9%	Score	40.2	DB	3	Length	3331
Best Local Similarity	51.4%	Pred.	No. 1.3				
Matches	93	Conservative	0	Mismatches	88	Indels	0
						Gaps	0

Accession	Sequence	Position
OY	agctccctcgaactcctcctgaagcttgaaagagatctcgaaggtggtgtcttcgtctgtacgtgggaact	612
OY	553 agctccctcgaactcctcctgaagcttgaaagagatctcgaaggtggtgtcttcgtctgtacgtgggaact	612
Db	766 AGCCGCAGACCCCTGCTGCGCGCTTGAGAGAGCGCGCAGGTGACCTTGGAGAACTCGGTGGCGG	825
OY	613 gcgctgacgcgacccacccctgctactcgtcttcttgagagatcgcctccaccagttctg	672
Db	826 ACTTGGAGAGACTCGGTGGCGGACTTGGAGGCGCTCGAGAGGTCTTGCTGGTGGCCTCGGAGATA	885
OY	673 gccaaagtgttcacagctgtgacaagcagcaggtgtcttgagaagtgtttaaagtgtgtagtctcg	732
Db	886 TGGAGAGACTCTGCTGCTGCGCGCTGCTGCTGCGCGCGCTGCTGCCGAGAGTGAAGACT	945
OY	733 c 733	
Db	946 c 946	

Db 946 C 946

RESULT 9
US-08-864-038A-4

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; Sequence 4, Application No. 60015922; Patent No. 60015922
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1 GENERAL INFORMATION:
 2 APPLICANT: Kunio NAKASHIMA et al.
 3 TITLE OF INVENTION: NOVEL POLYPEPTIDE GENE CDNA, VECTOR
 4 TITLE OF INVENTION: CONTAINING SAID CDNA, HOST CELLS TRANSFORMED WITH SAID
 5 VECTOR, POLYPEPTIDE PRODUCED THEREBY, METHOD OF PRODUCING
 6 TITLE OF INVENTION: SAID POLYPEPTIDE, DNA ENCODING SAID POLYPEPTIDE AND ANTIBODI
 7 TITLE OF INVENTION: TO SAID POLYPEPTIDE
 8 NUMBER OF SEQUENCES: 4

TITLE OF INVENTION: TO
NUMBER OF SEQUENCES: 4

;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: 812-5 Hiranaka

```

; STREET: Isshinden
; CITY: Tsu-city
;

```

STATE: Mie-pre
COUNTRY: JAPAN

```

;
;      ZIP: 514-01
;
;  COMPUTER READABLE FORM:

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; MEDIUM TYPE: Diskette, 3.50 inch, 1.44
;
; COMPUTER: IBM Compatible
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; OPERATING SYSTEM: Microsoft Windows
; SOFTWARE: Word Perfect 6.1
;
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08

```

; FILING DATE: May 28, 1997

```

: FILING DATE: 04-JUN-1993
: CLASSIFICATION: 536
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/986,330
: FILING DATE: 07-DEC-1992
: ATTORNEY/AGENT INFORMATION:
: NAME: Carroll, Peter G.
: REGISTRATION NUMBER: 32,837
: REFERENCE/DOCKET NUMBER: FORS-00613
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415/705-8410
: TELEFAX: 415/397-8338
: INFORMATION FOR SEQ ID NO: 7:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2502 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
:
: US-08-073-384C-7

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Query Match	3.8%	Score 39.6	DB 1	Length 2502
Best Local Similarity	47.4%	Pred. No. 1.7		
Matches 108; Conservative	0	Mismatches 120	Indels 0	Gaps 0

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Matches 108; Conservative 0; Mismatches 120; Indels 0; Gaps 0;
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QY 239 ctccatgtggacgatatctgatgcaagtgatcgacggcctcacaagcatctctggaagcgcaag 298

Ov 299 tcttgaacacccaccatcaccacaacttttcaccccacccccca 358

Db 1008 ACCAGACCCCTTANGGGCCCTNAGGGACCTNAAGGAGGTGCGGGGNCCTCGCCAAGGA 106

Db 1068 CCTGCCGTTTGCCCTGAGGAGGGCTNGACCTCNTGCCCGGGA 1115

RESULT 11

; Patent No. 5614402

APPLICANT: LYAMICHEV, VICTOR I.

; TITLE OF INVENTION: DNA POLYMERASE
 : NUMBER OF SEQUENCES: 40

ADDRESSEE: HAVERSTOCK, MEDLEN & CARROLL
STREET: 230 MONTGOMERY STREET SUITE 2300

STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA

```

;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk

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/      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25

```

FILING DATE: 08/08/2014

APPLICATION NUMBER: US 08/073,384

```

1  CLASSIFICATION: 435
2  ATTORNEY/AGENT INFORMATION:
3  NAME: CARROLL, PETER G.
4  REGISTRATION NUMBER: 32,837
5  REFERENCE/DOCKET NUMBER: FOS-0179
6  TELECOMMUNICATION INFORMATION:
7  TELEPHONE: (415) 705-8410
8  TELEFAX: (415) 397-8338
9  INFORMATION FOR SEQ ID NO: 7:
10  SEQUENCE CHARACTERISTICS:
11  LENGTH: 2502 base pairs

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TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-481-238-7

Query Match 3.8%; Score 39.6; DB 1; Length 2502;
Best Local Similarity 47.4%; Pred. No. 1.7;
Matches 108; Conservative 0; Mismatches 120; Indels 0; Gaps 0;

QY 179 gaagacgtgtcccccacagagagacacccctgcttcctcagatgcacgg 238
DB 888 GGAGGCCCCCTGGCCCCCGCGAGAGGGGCTTCGCGGCTTGTCTCCCGCCGA 947
QY 239 ccccatgtggagcagatctgagtcaggtatgcagggcgccctacatctggagcgag 298
DB 948 GCCCATGTGGGCGGAGCTTCTGCCCCCTGCCCCCGGAGGAGGGCGGCTCCACCGGGC 1007
QY 299 tctgagcagcgacgagcggtatcgcacactatgcgtgctgcttcacagaccaga 358
DB 1008 ACCAGACCCCTTANGGGCTTANGGAGACTNAGAGAGGTGGGGGCTCTCGCCAGGA 1067
QY 359 catggccagtgaccctcagcgcgagccagtggtgttcagagaga 406
DB 1068 CTTGGCCGTTTGGCCCTGAGGAGGAGGCTTGACCTCCTGCTCCCGGGGA 1115

RESULT 14
US-08-471-066B-7
Sequence 7, Application US/08471066B
Patent No. 5837450

GENERAL INFORMATION:

APPLICANT: Dahlberg, James E.
APPLICANT: Lyamichev, Victor I.
APPLICANT: Brow, Mary Ann D.
TITLE OF INVENTION: 5' Nucleases Derived From Thermostable
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: Medlen & Carroll, LLP
STREET: 220 Montgomery Street, Suite 2200
CITY: San Francisco
STATE: California
COUNTRY: United States of America
ZIP: 94104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471.066B
FILING DATE: 06-JUN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/254,359
FILING DATE: 06-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/073,384
FILING DATE: 04-JUN-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/986,330
FILING DATE: 07-DEC-1992

ATTORNEY/AGENT INFORMATION:

NAME: Ingolia, Diane E.
REGISTRATION NUMBER: 40,027
REFERENCE/DOCKET NUMBER: FORS-01800
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 705-8410
TELEFAX: (415) 397-8338
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:

LENGTH: 2502 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-471-066B-7

Query Match 3.8%; Score 39.6; DB 2; Length 2502;
Best Local Similarity 47.4%; Pred. No. 1.7;
Matches 108; Conservative 0; Mismatches 120; Indels 0; Gaps 0;

QY 179 gaagacgtgtcccccacagagagacacccctgcttcctcagatgcacgg 238
DB 888 GGAGGCCCCCTGGCCCCCGCGAGAGGGGCTTCGCGGCTTGTCTCCCGCCGA 947
QY 239 ccccatgtggagcagatctgagtcaggtatgcagggcgccctacatctggagcgag 298
DB 948 GCCCATGTGGGCGGAGCTTCTGCCCCCTGCCCCCGGAGGAGGGCGGCTCCACCGGGC 1007
QY 299 tctgagcagcgacgagcggtatcgcacactatgcgtgctgcttcacagaccaga 358
DB 1008 ACCAGACCCCTTANGGGCTTANGGAGACTNAGAGAGGTGGGGGCTCTCGCCAGGA 1067
QY 359 catggccagtgaccctcagcgcgagccagtggtgttcagagaga 406
DB 1068 CTTGGCCGTTTGGCCCTGAGGAGGAGGCTTGACCTCCTGCTCCCGGGGA 1115

RESULT 15
US-08-484-956-7
Sequence 7, Application US/08484956
Patent No. 5843654

GENERAL INFORMATION:

APPLICANT: DAHLBERG, JAMES E.
APPLICANT: LYAMICHEV, VICTOR I.
APPLICANT: BROW, MARY ANN D.
APPLICANT: OLDENBURG, MARY C.
APPLICANT: HEISLER, LAURA
TITLE OF INVENTION: DETECTION OF p53 MUTATIONS
NUMBER OF SEQUENCES: 114
CORRESPONDENCE ADDRESS:
ADDRESSEE: HAVERSTOCK, MEDLEN & CARROLL
STREET: 220 MONTGOMERY STREET, SUITE 2200
CITY: SAN FRANCISCO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,956
FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/402,601
FILING DATE: 09-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/337,164
FILING DATE: 09-NOV-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/254,359
FILING DATE: 06-JUN-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/073,384
FILING DATE: 04-JUN-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/986,330
FILING DATE: 07-DEC-1992

ATTORNEY/AGENT INFORMATION:

MOLECULE TYPE: DNA (genomic)
US-08-484-956-7

Query Match	3.88;	Score 39.6;	DB 2;	Length 2502;
Best Local Similarity	47.48;	Pred. No. 1.7;		
Matches 108; Conservative	0;	Mismatches 120;	Indels 0;	Gaps 0;

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238	238	947	298	1007	358	1067	406	1115

Search completed: September 5, 2002, 13:13:05
Job time: 713 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 5, 2002, 13:13:05 ; Search time 94.24 Seconds
(without alignments)
2150.336 Million cell updates/sec

Title: US-09-665-728-2_COPY_96_920
Perfect score: 825
Sequence: 1 atgacgcctagggcgcagct.....ctcctctctgatgcaaac 825

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
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6: /cgn2_6/ptodata/2/ina/Backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	50.4	6.1	2338	1	US-08-425-069-1 Sequence 1, Appl
2	50.4	6.1	2338	2	US-08-317-844B-1 Sequence 1, Appl
3	41.2	5.0	1185	3	US-09-023-339-3 Sequence 3, Appl
4	41.2	5.0	1260	3	US-09-023-173-5 Sequence 5, Appl
5	41.2	5.0	1308	3	US-09-023-173-10 Sequence 10, Appl
6	41.2	5.0	1308	3	US-09-023-339-6 Sequence 6, Appl
7	40.2	4.9	2214	3	US-08-864-038A-1 Sequence 1, Appl
8	40.2	4.9	3331	3	US-08-864-038A-2 Sequence 2, Appl
9	40.2	4.9	3331	3	US-08-864-038A-4 Sequence 4, Appl
10	39.6	4.8	2502	1	US-08-073-384C-7 Sequence 7, Appl
11	39.6	4.8	2502	1	US-08-254-359A-7 Sequence 7, Appl
12	39.6	4.8	2502	1	US-08-483-043-7 Sequence 7, Appl
13	39.6	4.8	2502	1	US-08-481-238-7 Sequence 7, Appl
14	39.6	4.8	2502	2	US-08-471-066B-7 Sequence 7, Appl
15	39.6	4.8	2502	2	US-08-484-956-7 Sequence 7, Appl
16	39.6	4.8	2502	2	US-08-757-653-7 Sequence 7, Appl
17	39.6	4.8	2502	2	US-08-599-491-7 Sequence 7, Appl
18	39.6	4.8	2502	2	US-08-756-386-7 Sequence 7, Appl
19	39.6	4.8	2502	2	US-08-823-516-7 Sequence 7, Appl
20	39.6	4.8	2502	3	US-08-682-853A-7 Sequence 7, Appl
21	39.6	4.8	2502	3	US-08-759-038-7 Sequence 7, Appl
22	39.6	4.8	2502	3	US-08-758-314-7 Sequence 7, Appl
23	39.6	4.8	2502	4	US-09-350-309-7 Sequence 7, Appl
24	38.6	4.7	1929	4	US-09-380-420C-1 Sequence 24, Appl
25	38.6	4.7	1598	1	US-08-211-682-24 Sequence 3, Appl
26	38.2	4.6	1995	2	US-08-425-069-3 Sequence 3, Appl
27	38.2	4.6	1995	2	US-08-317-844B-3 Sequence 3, Appl

28	37.4	4.5	6085	4	US-09-029-603-4 Sequence 4, Appl
29	37	4.5	2000	4	US-09-329-350-34 Sequence 34, Appl
30	36.8	4.5	50937	4	US-09-428-517-1 Sequence 1, Appl
31	36.6	4.4	718	4	US-08-918-288-10 Sequence 10, Appl
32	36.6	4.4	718	4	US-09-282-357-10 Sequence 10, Appl
33	36.6	4.4	744	4	US-08-918-288-8 Sequence 8, Appl
34	36.6	4.4	744	4	US-09-282-357-8 Sequence 8, Appl
35	36.4	4.4	23673	4	US-09-773-816-1 Sequence 1, Appl
36	36.2	4.4	2413	4	US-09-613-182-10 Sequence 10, Appl
37	36.2	4.4	80161	3	US-09-036-987A-1 Sequence 1, Appl
38	36.2	4.4	80161	4	US-09-370-700-1 Sequence 1, Appl
39	36	4.4	432	1	US-08-642-255-48 Sequence 48, Appl
40	36	4.4	756	1	US-08-642-255-50 Sequence 50, Appl
41	36	4.4	2040	3	US-08-604-789B-1 Sequence 1, Appl
42	36	4.4	2040	3	US-08-604-789B-12 Sequence 12, Appl
43	36	4.4	2040	4	US-09-312-721A-1 Sequence 1, Appl
44	36	4.4	2040	4	US-09-312-721A-12 Sequence 12, Appl
45	35.4	4.3	4411529	4	US-09-103-840A-1 Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-425-069-1
; Sequence 1, 5728810
; Patent No. 5728810
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Xu, Ming
; APPLICANT: Hsman, Michael B.
; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
; TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL
; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
; NUMBER OF SEQUENCES: 69
; CORRESPONDENCE ADDRESSES:
; ADDRESS: Birch, Stewart, Kolasch & Birch
; STREET: 301 No. 5728810th Washington Street
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22046
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/425,069
; FILING DATE: 19-APR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-106P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2338 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Nephila clavipes
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2154
; OTHER INFORMATION: /product= "Nephila clavipes"

```

? OTHER INFORMATION: dragline silk protein"
?
? PUBLICATION INFORMATION:
?
? AUTHORS: Xu, Ming
?
? TITLE: Structure of a protein superfiber: Spider
?
? TITLE: draftline silk
?
? JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
?
? VOLUME: 87
?
? PAGES: 7120-7124
?
? DATE: Sept.-1990
?
? RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2338
US-08-425-069-1

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Query Match	6.1%	Score 50.4	DB 1	Length 238
Best Local Similarity	49.3%	Pred. No. 0.004		
Matches 132	Conservative 0	Mismatches 136	Indels 0	Gaps 0

[illegible]

RESULT 2
US-08-317-844B-1
Sequence 1, Application US/08317844B

GENERAL INFORMATION:
APPLICANT: Lewis, Randolph V.
APPLICANT: Xu, Ming
APPLICANT: Himan, Michael B.
TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL
TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
NUMBER OF SEQUENCES: 62
CORRESPONDENCE ADDRESS:
ADDRESSEE: Birch, Stewart, Kolasch & Birch
STREET: 301 No. 596894th Washington Street
CITY: Falls Church
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22046
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/317,844B
FILING DATE: 04-Oct-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1447-105P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 241-1300

```

1      TELEFAX: (703) 241-2848
2      TELFX: 248345
3      INFORMATION FOR SEQ ID NO: 1:
4      SEQUENCE CHARACTERISTICS:
5      LENGTH: 2338 base pairs
6      TYPE: nucleic acid
7      STRANDEDNESS: single
8      TOPOLOGY: linear
9      MOLECULE TYPE: cDNA
10     HYPOTHETICAL: NO
11     ORIGINAL SOURCE:
12     ORGANISM: Nephilia clavipes
13     FEATURE:
14     NAME/KEY: CDS
15     LOCATION: 1..2154
16     OTHER INFORMATION: /product="Nephilia clavipes
17     OTHER INFORMATION: dragline silk protein"
18     PUBLICATION INFORMATION:
19     AUTHORS: Xu, Ming
20     AUTHORS: Lewis, Randolph V.
21     TITLE: Structure of a protein superfiber: Spider
22     JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
23     VOLUME: 87
24     PAGES: 7120-7124
25     DATE: Sept.-1990
26     RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2338
27     US-08-317-844B-1

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RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2338
US-08-317-84AB-1

Query Match	6.1%	Score 50.4	DB 2	Length 2338
Best Local Similarity	49.3%	Pred. No. 0.004		
Matches 132; Conservative	0	Mismatches 136	Indels 0	Gaps 0

QY	419	tcggagatgcccctgpcacaggactacccacaagaagaatgagctctctgcaagctctgagc	479
Db	459	TCCTGGAAAGCCAAAGGTGCAGACACGACGCTTTAGGTGCACAAAGCTGACGTCAGACAC	519
QY	479	tgaaagcagtcgcaagctggtctctgctgctgtaactgaggatcgcgtgacccgacccaccctg	539
Db	519	AGCAGCACCCGAGAGTGCCTGCACAAAGCGCGATACGGTGGTCTTGTGTGCACAAAGTGC	579
QY	539	gtctaccctgctttgaggagatgacctccaccagcttctcgccaagtgttccagctgaca	599
Db	579	ACAAAGGAGGCTATGAGGACTTTGCAAGCCAAAGTGTCTGGACGAGAGAGATTTAGGTGACA	639
QY	599	agcagcaggtgttcggaagctgtlaaagtgtgtgagatccgcacatccagcctcccaaatc	659
Db	639	AGGTGCAGGTGCACAGCAGCAGCAGCAGCTGCGAGGTGCCGACAAAGAGAGACTAGTGG	699
QY	659	atctgctgtctgcagcagaccagagaaga	686
Db	699	ACAAAGTGTCTGCACAAAGGAGCTGAGCA	726

RESULT 3
 US-09-023-339-3
 : Sequence 3, Application US/09023339
 : Patent No. 6127145
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: Sutcliffe, Thomas D.
 : APPLICANT: Rodriguez, Raymond L.
 : TITLE OF INVENTION: Production of '-Antitrypsin
 : TITLE OF INVENTION: in Plants
 : NUMBER OF SEQUENCES: 22
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Dehlinger & Associates
 : STREET: P.O. Box 60850
 : CITY: Palo Alto
 : STATE: CA
 : COUNTRY: USA
 : ZIP: 94306
 :
 : COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,339
FILING DATE: 13-FEB-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/037,991
FILING DATE: 13-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Petithory, Joanne R
REGISTRATION NUMBER: P42,995
REFERENCE/DOCKET NUMBER: 0665-0003.30
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-0880
TELEFAX: 650-324-0960
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1185 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: codon-optimized AAT coding sequence
US-09-023-339-3

Query Match 5.0%; Score 41.2; DB 3; Length 1185;
Best Local Similarity 47.6%; Pred. No. 0.47;
Matches 121; Conservative 0; Mismatches 133; Indels 0; Gaps 0;

QY 369 catcaagctgcgctgaggtgccaaccccgctccctatctatcagctcttcgagatgc 428
DB 684 CATCCAGCACTGCAAGAGCTCTCCAGCTGGGTCCTCATAGTACTGGGGAACGC 743
QY 429 ccgtgccaagagctaccacaagaagatgagctcctgcaagctctgcaagctgaagcagtc 488
DB 744 CACCGGCATCTTCTCTCGCGGACGAGGCAAGCTCCACACTGGAGAACAAGCTGAC 803
QY 489 gcaagtgctctgctgactgagtgagtgagtcgagccgacccactgagctactgagc 548
DB 804 GCACGACATCATCAGCAAGTCTCTGGAGAGACGAGACGGCGCTCCGCTCCACCT 863
QY 549 ttgtgagagatgctcccccagttctgccaagtgcttccagctgagacaagcagcgt 608
DB 864 CCCGAAGCTGAGCATCACCGGACGTAACGACCTGAAGAGCGTGGGCCAGCTGGGCACT 923
QY 609 gtcgaggtgttaa 622
DB 924 CACGAAGTCTTCA 937

RESULT 4
US-09-023-173-5
Sequence 5, Application US/09023173
Patent No. 6066781
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Thomas D.
APPLICANT: Rodriguez, Raymond L.
TITLE OF INVENTION: Production of Mature Proteins
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Ave., Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,173
FILING DATE: 13-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/038,168
FILING DATE: 13-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Petithory, Joanne R
REGISTRATION NUMBER: P42995
REFERENCE/DOCKET NUMBER: 0665-0007.30
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-0880
TELEFAX: 650-324-0960
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1260 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: codon-optimized Ramy3d signal-mature AAT
US-09-023-173-5

Query Match 5.0%; Score 41.2; DB 3; Length 1260;
Best Local Similarity 47.6%; Pred. No. 0.48;
Matches 121; Conservative 0; Mismatches 133; Indels 0; Gaps 0;

QY 369 catcaagctgcgctgaggtgccaaccccgctccctatctatcagctcttcgagatgc 428
DB 759 CATCCAGCACTGCAAGAGCTCTCCAGCTGGGTCCTCATAGTACTGGGGAACGC 818
QY 429 ccgtgccaagagctaccacaagaagatgagctcctgcaagctctgcaagctgaagcagtc 488
DB 819 CACCGGCATCTTCTCTCGCGGACGAGGCAAGCTCCACACTGGAGAACAAGCTGAC 878
QY 489 gcaagtgctctgctgactgagtgagtgagtcgagccgacccactgagctactgagc 548
DB 879 GCACGACATCATCAGCAAGTCTCTGGAGAGACGAGACGGCGCTCCGCTCCACCT 938
QY 549 ttgtgagagatgctcccccagttctgccaagtgcttccagctgagacaagcagcgt 608
DB 939 CCCGAAGCTGAGCATCACCGGACGTAACGACCTGAAGAGCGTGGGCCAGCTGGGCACT 998
QY 609 gtcgaggtgttaa 622
DB 999 CACGAAGTCTTCA 1012

RESULT 5
US-09-023-173-10
Sequence 10, Application US/09023173
Patent No. 6066781
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Thomas D.
APPLICANT: Rodriguez, Raymond L.
TITLE OF INVENTION: Production of Mature Proteins
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Ave., Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS

```

SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023, 173
FILING DATE: 13-FEB-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/038,168
FILING DATE: 13-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Petithory, Joanne R
REGISTRATION NUMBER: P42995
REFERENCE/DOCKET NUMBER: 0665-0007.30
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-0880
TELEFAX: 650-324-0960
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1308 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-023-173-10

```

Query Match	5.0%	Score	41.2	DB	3	Length	1308
Best Local Similarity	47.6%	Pred. No.	0.48				
Matches	121	Conservative	0	Mismatches	133	Indels	0
						Gaps	0

QY	369	catcaaaagctgcgcgttgaggtcttgcaaccgcgcctctctcaatcaagctcttcgtgaagc	428
Db	800	catcacacactgcgaagaactctccagctggcgctctcatgaatattacctgggaagcc	859
QY	429	ccgtgcgaagactcacacaaagaatgaagctcctcgcagctctctcagctgaagcagtc	488
Db	860	caccgcacattcttctcctgcgcgacgaaggcagaagctccagcaacctggaaagagctgac	919
QY	489	gcaagctgcttctgctgctgcgtggaacgcgcgtgtgcacgaacctgcgtacctgac	548
Db	920	gcacgacatattatcagcaagttccttggaagacgaggaagcgctccgctcgaagcttcacact	979
QY	549	ttttgaaggaatcgctccacacagttctctgcgaagtgctccagcttgacaacacagagt	608
Db	980	ccggaacctgacgatcacccggcacgtaacgacctgaagagacgctgctgggcacactgggcatt	1033
QY	609	gtcggagagtgcttaa	622
Db	1040	cacgaagctcttca	1053

RESULT 6
US-09-023-339-6
Sequence 6, Application US/09023339
Patent No. 6127145
GENERAL INFORMATION:
APPLICANT: Sulliff, Thomas D.
APPLICANT: Rodriguez, Raymond L.
TITLE OF INVENTION: Production of '1-Antitrypsin
TITLE OF INVENTION: In Plants
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: P.O. Box 60850
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PASTEO for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023.339

```

1      FILING DATE: 13-FEB-1998
2      PRIOR APPLICATION DATA:
3      APPLICATION NUMBER: 60/037,991
4      FILING DATE: 13-FEB-1997
5      ATTORNEY/AGENT INFORMATION:
6      NAME: Pelithory, Joane R
7      REGISTRATION NUMBER: P42,995
8      REFERENCE/DOCKET NUMBER: 0665-0003.30
9      TELECOMMUNICATION INFORMATION:
10     TELEPHONE: 650-324-0880
11     TELEFAX: 650-324-0960
12     INFORMATION FOR SEQ. ID NO.: 6:
13     SEQUENCE CHARACTERISTICS:
14     LENGTH: 1308 base pairs
15     TYPE: nucleic acid
16     STRANDEDNESS: single
17     TOPOLOGY: linear
18     IMMEDIATE SOURCE:
19     CLONE: codon-optimized No. 61271A51/XhoI fragment encoding Rany2D
20     CLONE: signal peptide-AAT fusion protein
21     UNK-09-023-339-6

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Query Match	5.0%;	Score 41.2;	DB 3;	Length 1308;
Best Local Similarity	47.6%;	Pred. No. 0.48;		
Matches 121;	Conservative	0;	Mismatches 133;	Indels 0;
			Gaps	0

QY 369 cattaagagctgcctgggaagtgtgcaaaccccgctctcattcattagcttcttgatgc 428
Db 800 CATCACCACACTGCAAGAAGCTCTCCAGCTGGGTGCTCTCATATGATAGTACTTGGGACCC 859
QY 429 ccgtgtccaaagataccacaagaagaatgatgcctctgcagctctctgtcagctgaagcgtc 488
Db 860 CACCGCCATCTTCTCTCTGCGGAGCAGAGGGCAAGCTCCAGACCTGGAAGAACGACTGAC 919
QY 489 gcaagctgtcttgctgtgctgtgcgtgggaactgcygtgtgcgcacacaccccgctactcgtgc 548
Db 920 GCACGACATATATACGAAGTTCCTGGAGAACGGAGCAAGGCGCTCGCTAGCTTCACT 979
QY 549 ttcttgaaagatcgtcctccacacagttctgtgcgaagtgtctccagctggaacagcaagtc 608
Db 980 CCGGAACCTGAGCATCACCGGACACGTACGACCTGAAGAGCGTGTGGGCGCACTGGGCAT 1039
QY 609 gtcgagagtggttaa 622
Db 1040 CACGAAGGCTTCA 1053

RESULT 7
 US-08-864-038A-1
 ; Sequence 1, Application US/08864038A
 ; Patent No. 6001592
 ; GENERAL INFORMATION:
 ; APPLICANT: Kunio NAKASHIMA et al.
 ; TITLE OF INVENTION: NOVEL POLYPEPTIDE GENE CDNA, VECTOR
 ; TITLE OF INVENTION: CONTRAINING SAID CDNA, HOST CELLS TRANSFORMED WITH SAID
 ; TITLE OF INVENTION: VECTOR, POLYPEPTIDE PRODUCED THEREBY, METHOD OF PRODUCING
 ; TITLE OF INVENTION: SAID POLYPEPTIDE, DNA ENCODING SAID POLYPEPTIDE AND ANTIBODI
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: 812-5 Hirano
 ; STREET: Ishinden
 ; CITY: Tsu-city
 ; STATE: Mie-prefecture
 ; COUNTRY: JAPAN
 ; ZIP: 514-01
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: Microsoft Windows 95
 ; SOFTWARE: Word Perfect 6.1
 ; CURRENT APPLICATION DATA:

1 APPLICATION NUMBER: US/08/864,038A
 2 FILING DATE: May 28, 1997
 3 PRIOR APPLICATION DATA:
 4 APPLICATION NUMBER: JP 8-184459
 5 FILING DATE: 15-July-1996
 6 ATTORNEY/AGENT INFORMATION:
 7 NAME: C. Bruce Hamburg
 8 REGISTRATION NUMBER: 22,389
 9 REFERENCE/DOCKET NUMBER: F-5610
 10 TELECOMMUNICATION INFORMATION:
 11 TELEPHONE: (212)986-2340
 12 TELEFAX: (212)951-7733
 13 INFORMATION FOR SEQ ID NO: 1:
 14 SEQUENCE CHARACTERISTICS:
 15 LENGTH: 2214
 16 TYPE: nucleic acid
 17 STRANDEDNESS: double
 18 TOPOLOGY: linear
 19 ORIGINAL SOURCE:
 20 ORGANISM: *Platella fucata*
 21 CELL TYPE: mantle epithelial cell
 22 US-08-864-038A-1

```
Query Match      4.9%; Score 40.2; DB 3; Length 2214;
Best Local Similarity 51.4%; Pred. No. 0.92;
Matches 93; Conservative 0; Mismatches 88; Indels 0; Gaps 0;
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[illegible]

```

1 RESULT      8
2 US-08-864-038A-2
3 ; Sequence 2, Application US/08864038A
4 ; Patent No. 6001592
5 ;
6 ; GENERAL INFORMATION:
7 ;
8 ; APPLICANT: Kunio NAKASHIMA et al.
9 ;
10 ; TITLE OF INVENTION: NOVEL POLYPEPTIDE GENE CDNA, VECTOR
11 ;
12 ; TITLE OF INVENTION: CONTAINING SAID CDNA, HOST CELLS TRANSFORMED WITH SAID
13 ;
14 ; TITLE OF INVENTION: VECTOR, POLYPEPTIDE PRODUCED THEREBY, METHOD OF PRODUCING
15 ;
16 ; TITLE OF INVENTION: SAID POLYPEPTIDE, DNA ENCODING SAID POLYPEPTIDE AND ANTIBODY
17 ;
18 ; TITLE OF INVENTION: TO SAID POLYPEPTIDE
19 ;
20 ; NUMBER OF SEQUENCES: 4
21 ;
22 ; CORRESPONDENCE ADDRESS:
23 ;
24 ; ADDRESSEE: 812-5 Hirano
25 ;
26 ; STREET: Isshinden
27 ;
28 ; CITY: Tsu-city
29 ;
30 ; STATE: Mie-prefecture
31 ;
32 ; COUNTRY: JAPAN
33 ;
34 ; ZIP: 514-01
35 ;
36 ; COMPUTER READABLE FORM:
37 ;
38 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
39 ;
40 ; COMPUTER: IBM Compatible
41 ;
42 ; OPERATING SYSTEM: Microsoft Windows 95
43 ;
44 ; SOFTWARE: Word Perfect 6.1
45 ;
46 ; CURRENT APPLICATION DATA:
47 ;
48 ; APPLICATION NUMBER: US/08/864,038A
49 ;
50 ; FILING DATE: May 28, 1997
51 ;
52 ; PRIORITY APPLICATION DATA:
53 ;

```

```

1  APPLICATION NUMBER: JP 8-184459
2  FILING DATE: 15-July-1996
3  ATTORNEY/AGENT INFORMATION:
4  NAME: C. Bruce Hamburg
5  REGISTRATION NUMBER: 22,389
6  REFERENCE/DOCKET NUMBER: F-5610
7  TELECOMMUNICATION INFORMATION:
8  TELEPHONE: (212)986-2340
9  TELEFAX: (212)953-7733
10 INFORMATION FOR SEQ ID NO: 2:
11 SEQUENCE CHARACTERISTICS:
12     LENGTH: 3331
13     TYPE: nucleic acid
14     STRANDEDNESS: double
15     TOPOLOGY: linear
16     MOLECULE TYPE: cDNA to mRNA
17     ORIGINAL SOURCE:
18     ORGANISM: Pinctada fucata
19     CELL TYPE: mantle epithelial cell
20     FEATURE: mRNA
21     LOCATION: from 1 to 3331
22     IDENTIFICATION METHOD: E (by experiment).
23  US-08-064-038A-2

```

Query Match	4.98;	Score 40.2;	DB 3;	Length 3331;
Best Local Similarity	51.48;	Pred. No. 1;		
Matches 93;	Conservative 0;	Mismatches 88;	Indels 0;	Gaps 0;

QY	458	agcccttcacactctctgtgaagtcgaagatcgaagatgagcttcgtctgtcagtcgggaact	517
Db	766	AGCCGACCCCTGCTGCTGCGCTTGACAGAGGCGCGAGTGAGACTTGAGAGACTCGGTGGCGG	825
QY	518	gcgctgacgcgacccacccctgctacactgctcttttgaagatcgcctccacacagttctg	577
Db	826	ACTTGAGAGGACTCGGTGGCGGACTTTGAGAGCGCTCGAGAGTCTTGCTGGCGCTCGGAGATA	885
QY	578	gccaaagtcttcacagctgtgacaaagcagcaggtgtctgagagtggttaaatgtgtgagttccg	637
Db	886	TGGAGGATCTGCTGCTGCGCGTGTGCTGCTGCGCGCGCTGCTGCCAGAGGTGAGAGACT	945
QY	638	c 638	
Db	946	c 946	

RESULT 9
 US-08-864-038A-4
 : Sequence 4, Application US/08864038A
 : Patent No. 6001592
 :
 : GENERAL INFORMATION:
 : APPLICANT: KUNIO NAKASHIMA et al.
 : TITLE OF INVENTION: NOVEL POLYPEPTIDE GENE CDNA, VECTOR
 : TITLE OF INVENTION: CONTAINING SAID CDNA, HOST CELLS TRANSFORMED WITH SAID
 : TITLE OF INVENTION: VECTOR, POLYPEPTIDE PRODUCED THEREBY, METHOD OF PRODUCING
 : TITLE OF INVENTION: SAID POLYPEPTIDE, DNA ENCODING SAID POLYPEPTIDE AND ANTIBOD
 : TITLE OF INVENTION: TO SAID POLYPEPTIDE
 : NUMBER OF SEQUENCES: 4
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: 812-5 Hirano
 : STREET: Ishinden
 : CITY: Tsu-city
 : STATE: Mie-prefecture
 : COUNTRY: JAPAN
 : ZIP: 514-01
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
 : COMPUTER: IBM Compatible
 : OPERATING SYSTEM: Microsoft Windows 95
 : SOFTWARE: Word Perfect 6.1
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/864,038A
 : FILING DATE: May 28, 1997

? FILING DATE: 04-JUN-1993
 ? CLASSIFICATION: 536
 ? PRIOR APPLICATION DATA:
 ? APPLICATION NUMBER: US 07/986,330
 ? FILING DATE: 07-DEC-1992
 ? ATTORNEY/AGENT INFORMATION:
 ? NAME: Carroll, Peter G.
 ? REGISTRATION NUMBER: 32,837
 ? REFERENCE/DOCKET NUMBER: F0RS-00613
 ? TELECOMMUNICATION INFORMATION:
 ? TELEPHONE: 415/705-8610
 ? TELEFAX: 415/397-8338
 ? INFORMATION FOR SEQ ID NO: 7:
 ? SEQUENCE CHARACTERISTICS:
 ? LENGTH: 2502 base pairs
 ? TYPE: nucleic acid
 ? STRANDEDNESS: single
 ? TOPOLOGY: linear
 ?
 ?
 ? US-08-073-384C-7

Query Match	4.8%;	Score 39.6;	DB 1;	Length 2502;
Best Local Similarity	47.4%;	Pred. No. 1.3;		
Matches 108;	Conservative 0;	Mismatches 120;	Indels 0;	Gaps 0;

[illegible]

RESULT 11
 US-08-254-359A-7
 Sequence 7, Application US/08254359A
 Patent No. 5614402
 GENERAL INFORMATION:
 APPLICANT: DAHLBERG, JAMES E.
 APPLICANT: LYAMICHEV, VICTOR I.
 APPLICANT: BROW, MARY ANN D.
 TITLE OF INVENTION: 5' NUCLEOSIDES DERIVED FROM THERMOSTABLE
 TITLE OF INVENTION: DNA POLYMERASE
 NUMBER OF SEQUENCES: 40
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: HAVERTOCK, MEDLEN & CARROLL
 STREET: 220 MONTGOMERY STREET, SUITE 2200
 CITY: SAN FRANCISCO
 STATE: CALIFORNIA
 COUNTRY: UNITED STATES OF AMERICA
 ZIP: 94104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/254,359A
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/073,384
 FILING DATE: 06-JUN-1993
 PRIOR APPLICATION DATA:


```

; APPLICATION NUMBER: US 07/986,330
; FILING DATE: 07-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: CARROLL, PETER G.
; REGISTRATION NUMBER: 32,837
; REFERENCE/DOCKET NUMBER: FORS-01000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 705-8410
; TELEFAX: (415) 397-8338
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2502 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-254-359A-7

Query Match
Best Local Similarity 47.4%; Pred. No. 1.3; Length 2502;
Matches 108; Conservative 0; Mismatches 120; Indels 0; Gaps 0;

QY 84 gaagacgctgtcccccgcacagagagacgacccctgcttcgtctcgtatgtacccg 143
   |||||
DB 888 GGAGGCCCCCTGGCCCCCGCGAAGGGGCTTCTGCGGCTTTGCTTCCCGCCCGA 947

QY 144 ctccatgtggaagatctgtagcaggtatgcagcgccctcagcatctcggagcgag 203
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DB 948 GCCCATGTGGGCGGAGCTTCTGGCCCTGCGCCGCGCAGGAGGGCCGCGTCCACCGGCGC 1007

QY 204 tctgagcagcgacgacgagtcacatgcacactatgcctgtgtccttcacagaccaga 263
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DB 1008 ACCAGACCCCTTTANGGCCCTNAGGACCTNAGAGAGGTGCGGGGNCCTCTGCCAAGA 1067

QY 264 catggccagtgacacctcagcgcgagccagtggtgttcagagaga 311
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DB 1068 CCTGGCCGTTTGGCCCTGAGGAGGAGGCGCTNAGACCTNCTGCCCCGGGGA 1115

RESULT 12
US-08-483-043-7
; Sequence 7, Application US/08483043
; Patent No. 5691142
; GENERAL INFORMATION:
; APPLICANT: Dahlberg, James E.
; APPLICANT: Lyamlchev, Victor I.
; TITLE OF INVENTION: SYNTHESIS-DEFICIENT THERMOSTABLE DNA
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAVERSTOCK, MEDLEN & CARROLL
; STREET: 220 Montgomery Street, Suite 2200
; CITY: San Francisco
; STATE: California
; COUNTRY: United States of America
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/483,043
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/073,384
; FILING DATE: 04-JUN-1993
; APPLICATION NUMBER: US 07/986,330
; FILING DATE: 07-DEC-1992
; ATTORNEY/AGENT INFORMATION:
```

```

; NAME: Carroll, Peter G.
; REGISTRATION NUMBER: 32,837
; REFERENCE/DOCKET NUMBER: FORS-00613
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/705-8410
; TELEFAX: 415/397-8338
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2502 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-483-043-7

Query Match
Best Local Similarity 47.4%; Pred. No. 1.3; Length 2502;
Matches 108; Conservative 0; Mismatches 120; Indels 0; Gaps 0;

QY 84 gaagacgctgtcccccgcacagagagacgacccctgcttcgtctcgtatgtacccg 143
   |||||
DB 888 GGAGGCCCCCTGGCCCCCGCGAAGGGGCTTCTGCGGCTTTGCTTCCCGCCCGA 947

QY 144 ctccatgtggaagatctgtagcaggtatgcagcgccctcagcatctcggagcgag 203
   |||||
DB 948 GCCCATGTGGGCGGAGCTTCTGGCCCTGCGCCGCGCAGGAGGGCCGCGTCCACCGGCGC 1007

QY 204 tctgagcagcgacgacgagtcacatgcacactatgcctgtgtccttcacagaccaga 263
   |||||
DB 1008 ACCAGACCCCTTTANGGCCCTNAGGACCTNAGAGAGGTGCGGGGNCCTCTGCCAAGA 1067

QY 264 catggccagtgacacctcagcgcgagccagtggtgttcagagaga 311
   |||||
DB 1068 CCTGGCCGTTTGGCCCTGAGGAGGAGGCGCTNAGACCTNCTGCCCCGGGGA 1115

RESULT 13
US-08-481-238-7
; Sequence 7, Application US/08481238
; Patent No. 5795763
; GENERAL INFORMATION:
; APPLICANT: DAHLBERG, JAMES E.
; APPLICANT: LYAMICHEV, VICTOR I.
; TITLE OF INVENTION: SYNTHESIS-DEFICIENT THERMOSTABLE DNA
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MEDLEN & CARROLL
; STREET: 220 MONTGOMERY STREET, SUITE 2200
; CITY: SAN FRANCISCO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,238
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: CARROLL, PETER G.
; REGISTRATION NUMBER: 32,837
; REFERENCE/DOCKET NUMBER: FORS-01798
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 705-8410
; TELEFAX: (415) 397-8338
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2502 base pairs
```


NAME: CARROLL, PETER G.
REGISTRATION NUMBER: 32,837
REFERENCE/DOCKET NUMBER: FORS-01801
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 705-8410
TELEFAX: (415) 397-8338
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 2502 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-484-956-7

Query Match 4.8%; Score 39.6; DB 2; Length 2502;
Best Local Similarity 47.4%; Pred. No. 1.3; Mismatches 120; Indels 0; Gaps 0;
Matches 108; Conservative 0; Mismatches 120; Indels 0; Gaps 0;
QY 84 gaagacgtgtcccccgcagagagagacccctgtcttctgtatgtcacgg 143
DB 888 GAGAGCCCCCTGGCCCCCGGAGAGGGCTTCGTGGCTTGTCTCCCGCCCGA 947
QY 144 ctccatgttggaacatctgacgtgacgcgcctcacgcatcttgagagcgag 203
DB 948 GCCCATGTGGGGCGAGCTTGTGGCCCTGGCCGCGCAGGAGGGCGGGTCCACCGGC 1007
QY 204 tctgagcagcgcagcgcgggtcatcgccaactatgcgctgtgtccttcacgaccaga 263
DB 1008 ACCAGACCCCTTANGGGCTNAGGGACCTNAAAGAGGTGCGGGGNCCTCCTCGCCAAAGA 1067
QY 264 catggcccaagtgaccctcacgcgcgagaccagtggtgttcagagaga 311
DB 1068 CTTGGCCGTTTGGCCCTGAGGAGGGCTNAGACCTCCTGCGCGGGA 1115

Search completed: September 5, 2002, 13:13:15
Job time: 723 sec

